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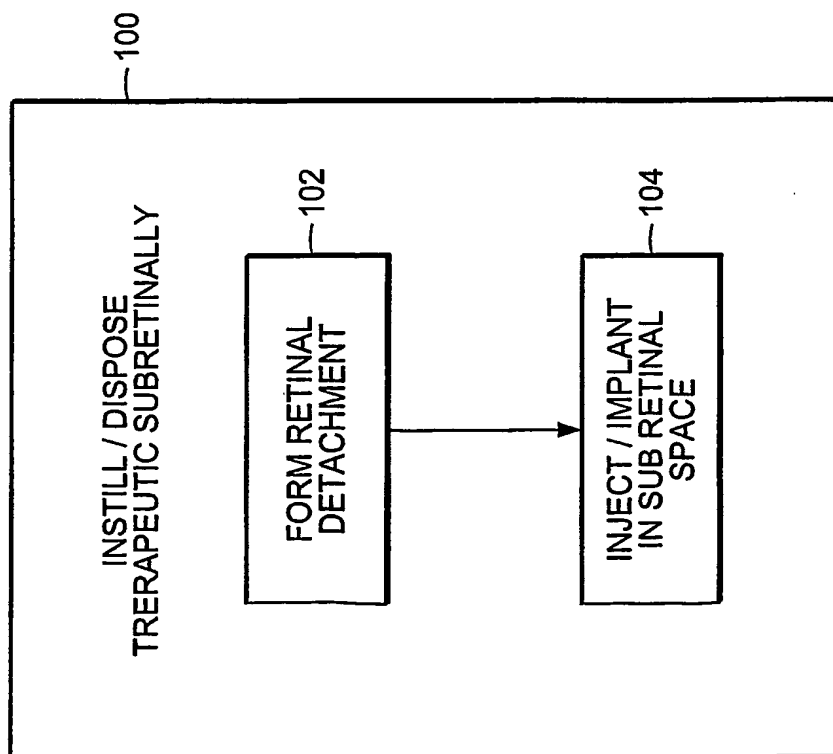
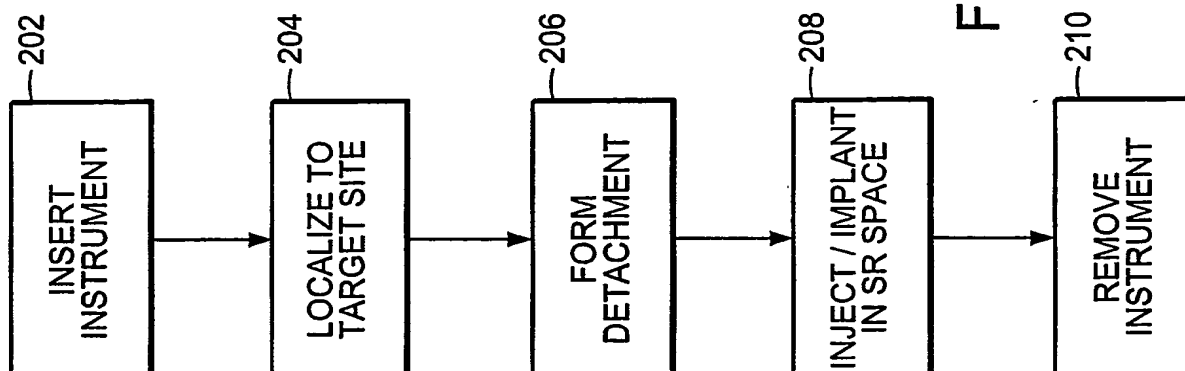


FIG. 1

FIG. 2

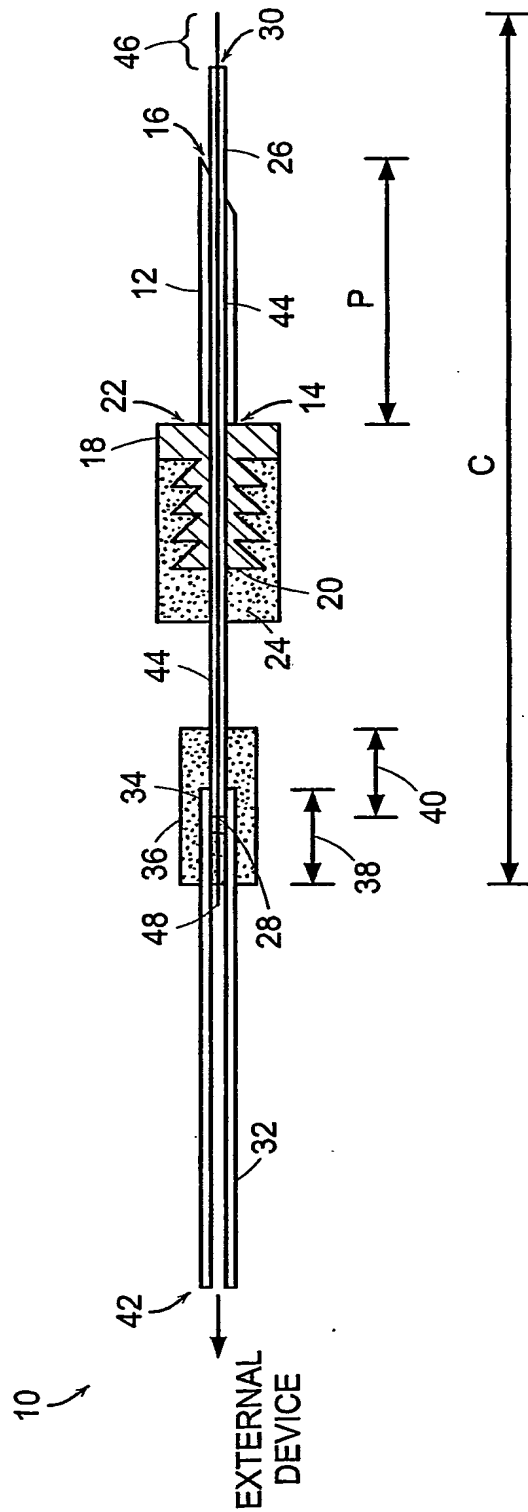


FIG. 3A

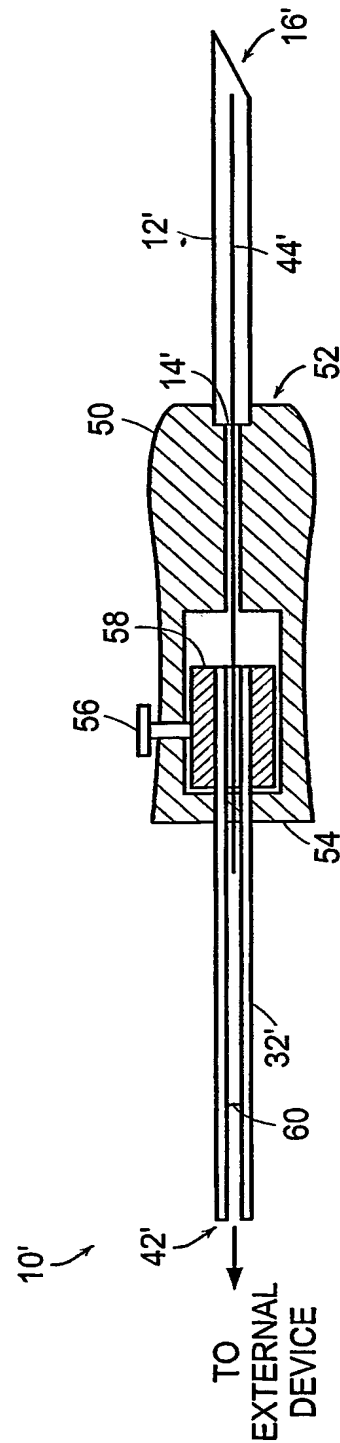
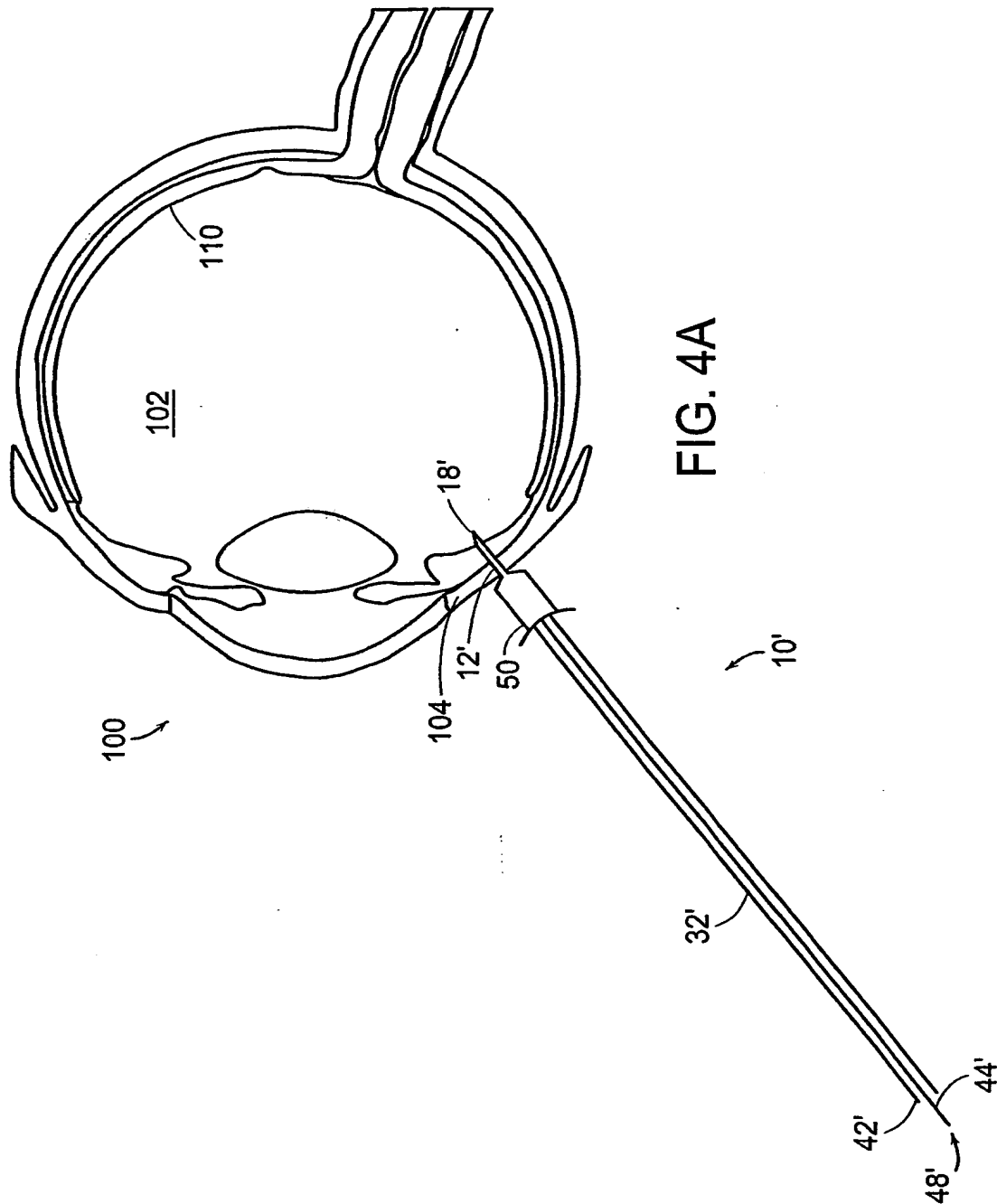
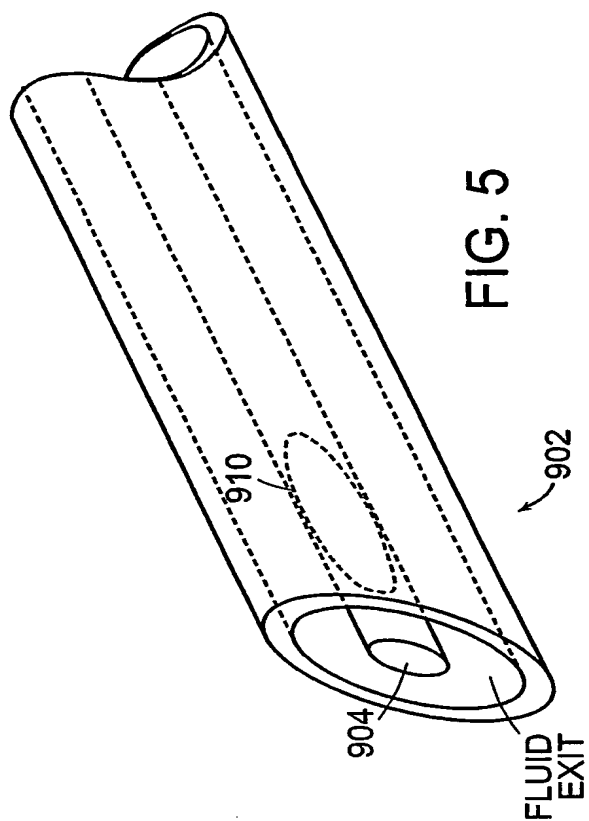
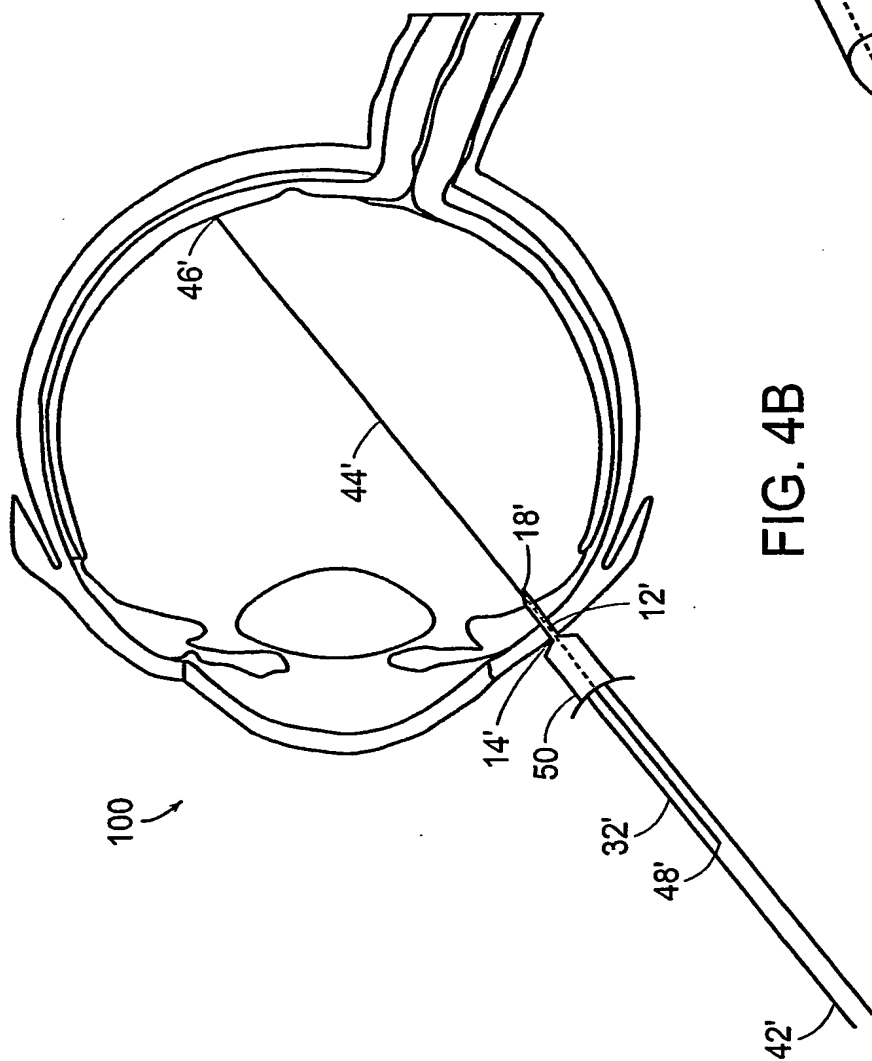


FIG. 3B

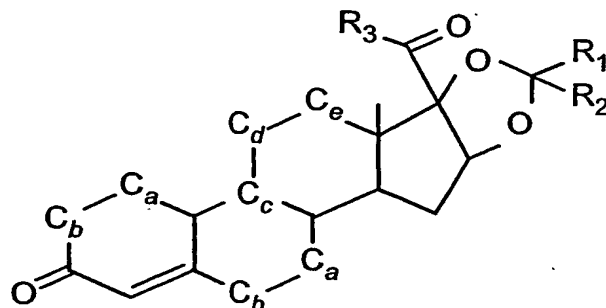


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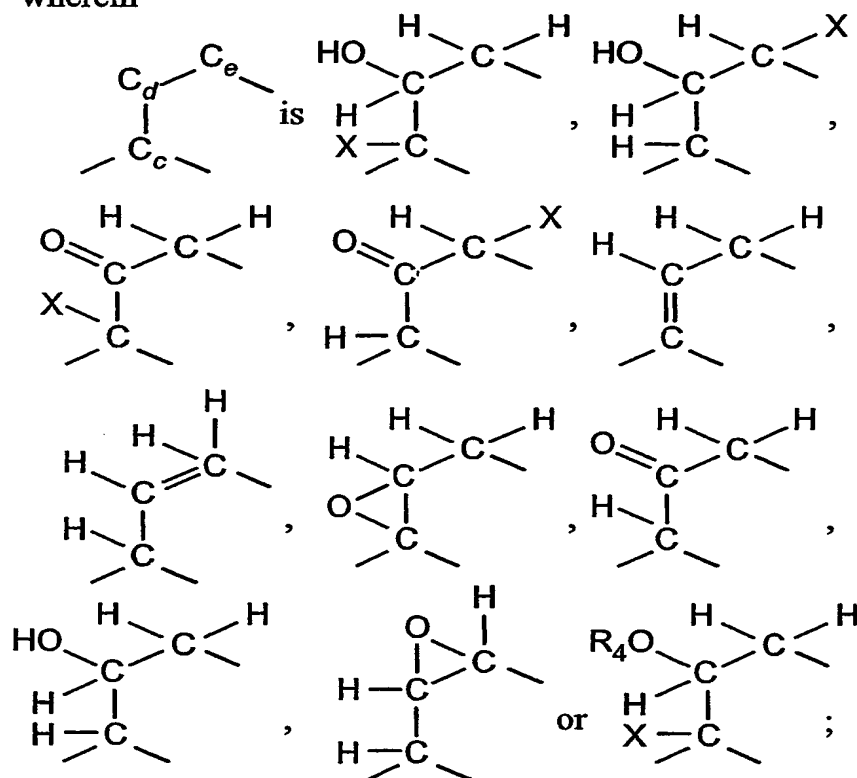
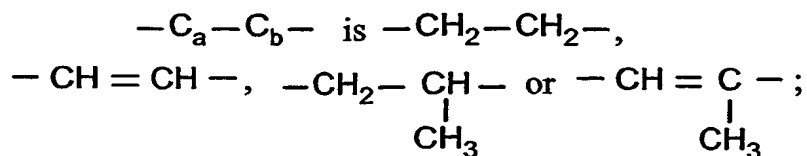


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11-substituted 16 α , 17 α -substituted methylenedioxy steroids of the formula

wherein

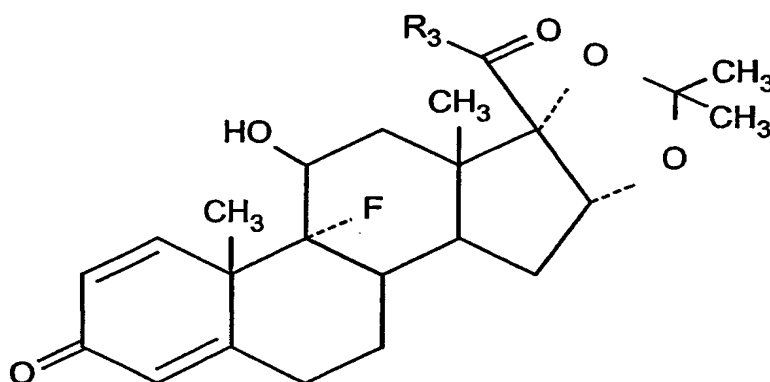
 R_1 and R_2 are hydrogen or alkyl;

R_3 is methyl, hydroxymethyl or alkylcarbonyloxymethyl, methylaminoalkylenecarbonyloxymethyl, or phenylamino alkylenecarbonyloxymethyl; R_4 is alkanoyl; and X is halogen.

FIG. 6A

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compounds of the formula



wherein R_3 is hydroxymethyl,
phenylcarbonylaminoisopropylcarbonyloxymethyl,
or 2,2-dimethylpropylcarbonyloxymethyl.

FIG. 6B

cystalline 9-fluoro-11, 21-dihydroxyl-16,
17-[1-methylethylidenebis(oxy)]pregna-1,
4-diene-3, 20-dione:

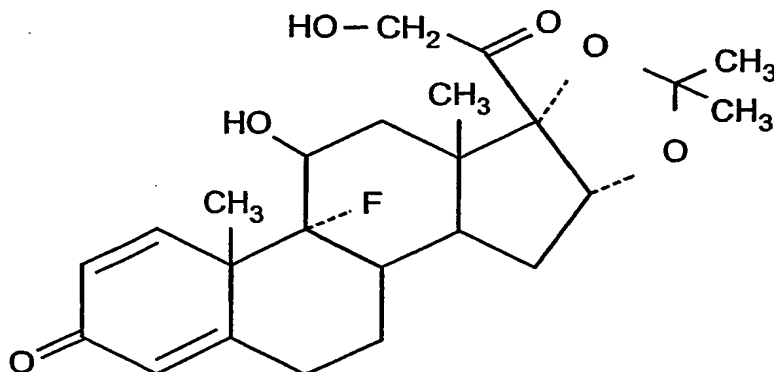


FIG. 6C

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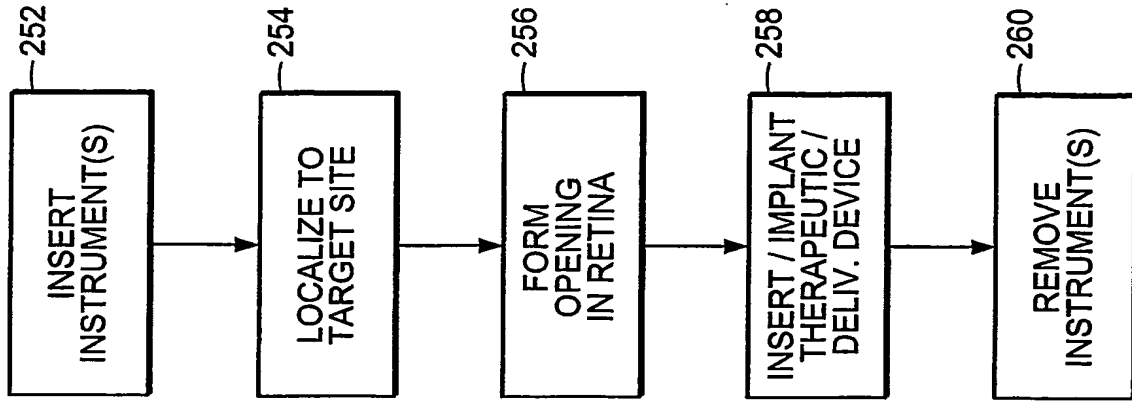


FIG. 8

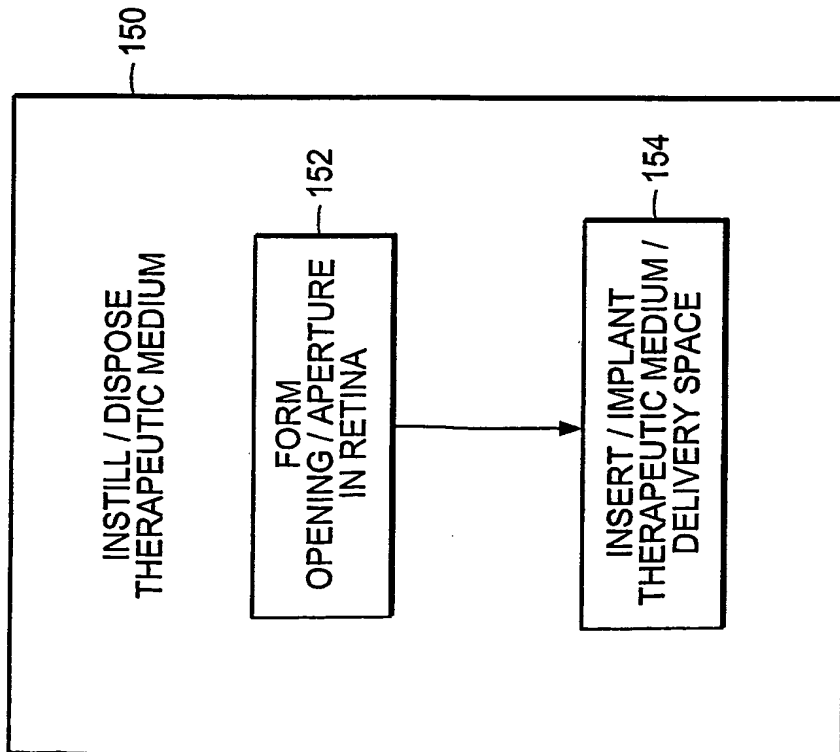


FIG. 7